

## ABSTRACT

The present invention relates to a tunable resonating  
5 arrangement comprising a resonator apparatus (10), input/output  
coupling (4) means for coupling electromagnetic energy into/out  
of the resonator apparatus, and a tuning device (3) for  
application of a biasing voltage/electric field to the resonator  
apparatus. The resonator apparatus comprises a first resonator  
10 (1) and a second resonator (2). Said first resonator is non-  
tunable and said second resonator is tunable and comprises a  
ferroelectric substrate (21). Said first and second resonators  
are separated by a ground plane (13) which is common for said  
first and second resonators, and coupling means (5) are provided  
15 for providing coupling between said first and second resonators.  
For tuning of the resonator apparatus, the biasing  
voltage/electric field is applied to the second resonator (2).

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(Fig. 4)